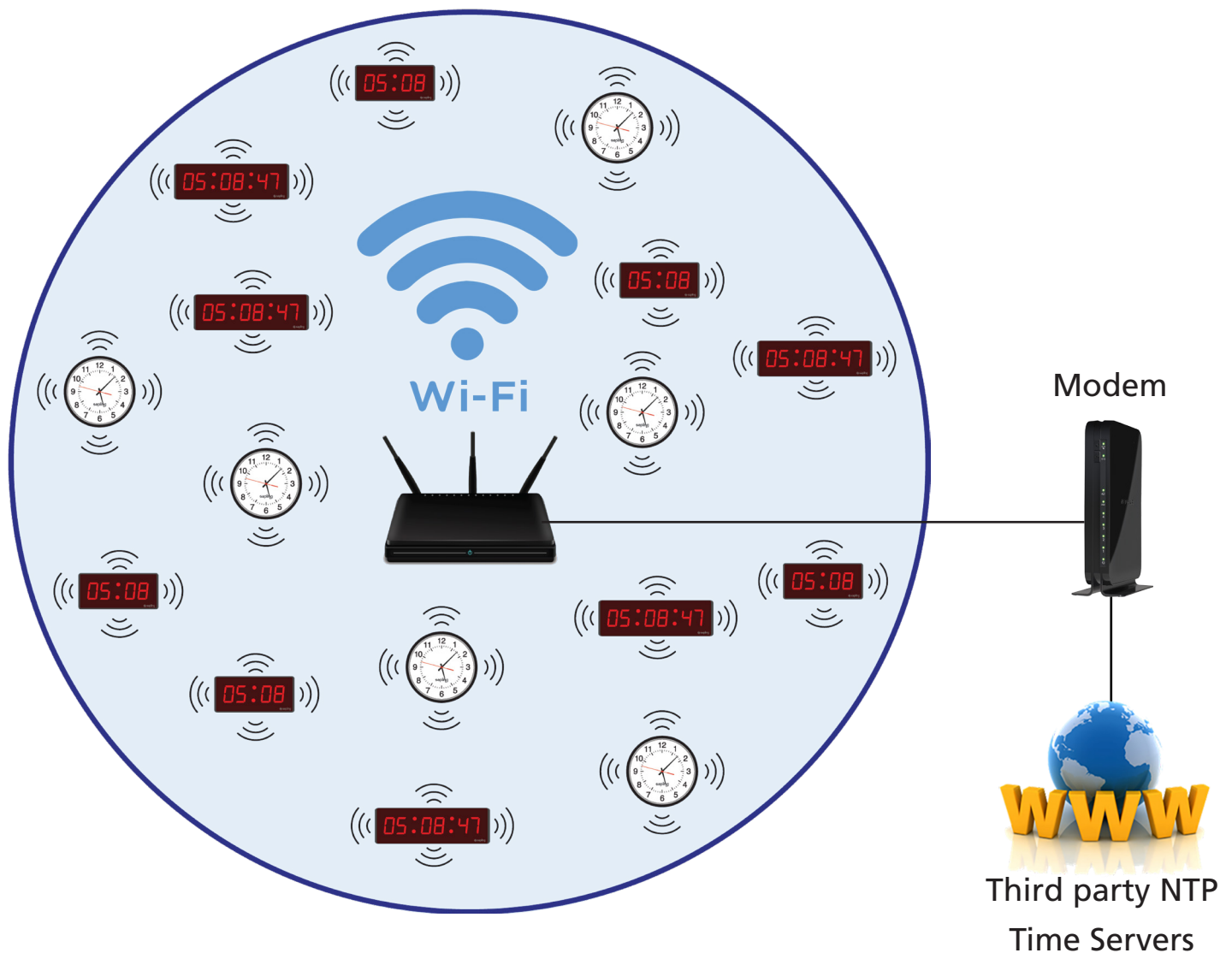# Sapling Wi-Fi Clock System Line Drawing

Configuration A

Sapling Wi-Fi clocks receiving the time data from third party NTP time servers utilizing facility's Wi-Fi and internet infrastructure.
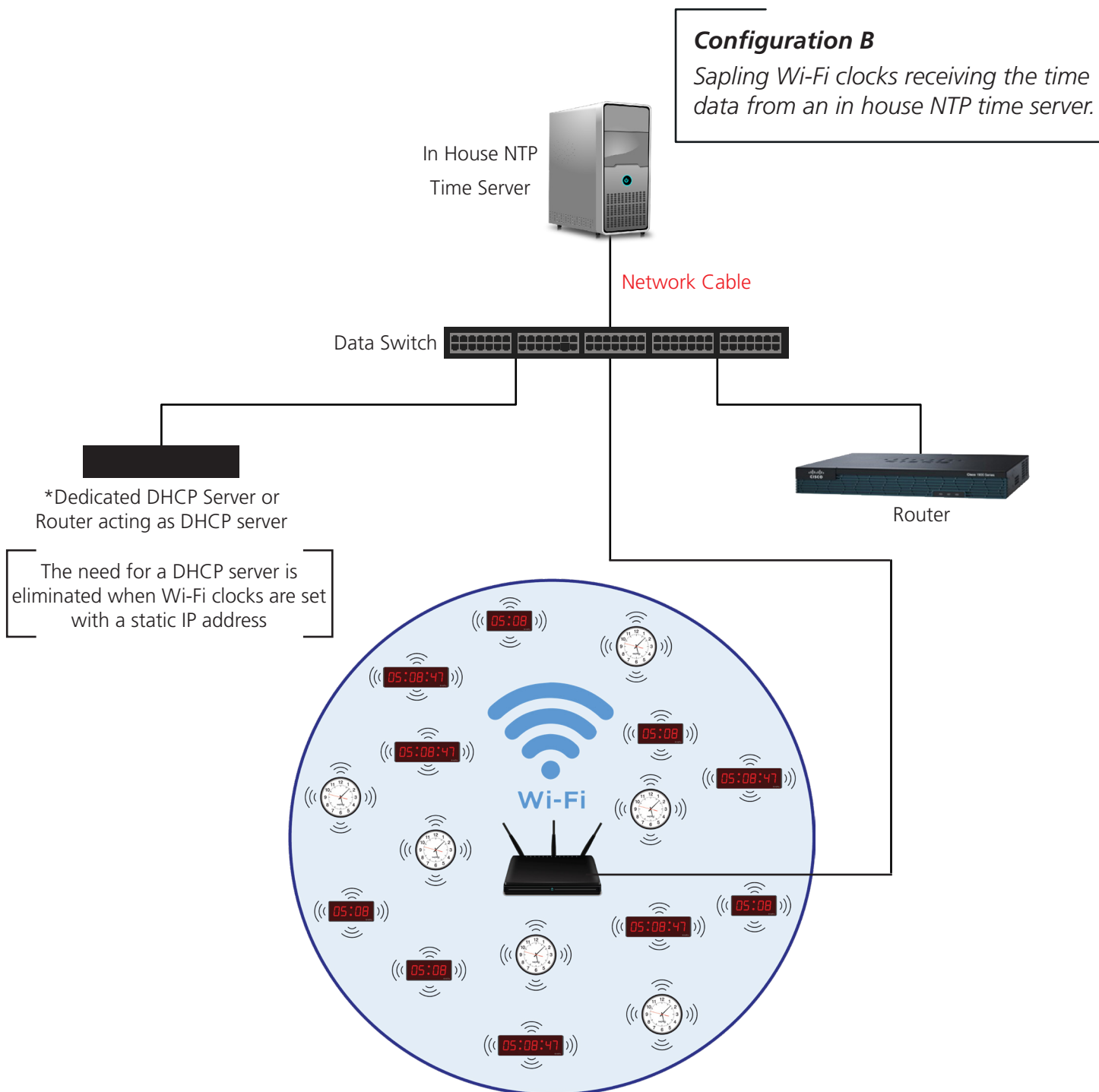

Wi-Fi

Modem

Third party NTP Time Servers

Sapling Wi-Fi Clocks Receiving Time from an in House NTP Server

Configuration B
Sapling Wi-Fi clocks receiving the time data from an in house NTP time server.

In House NTP
Time Server

Network Cable

Data Switch

*Dedicated DHCP Server or
Router acting as DHCP server

Router

The need for a DHCP server is
eliminated when Wi-Fi clocks are set
with a static IP address

Wi-Fi

Sapling Wi-Fi Clocks with a Master Clock and a GPS Receiver
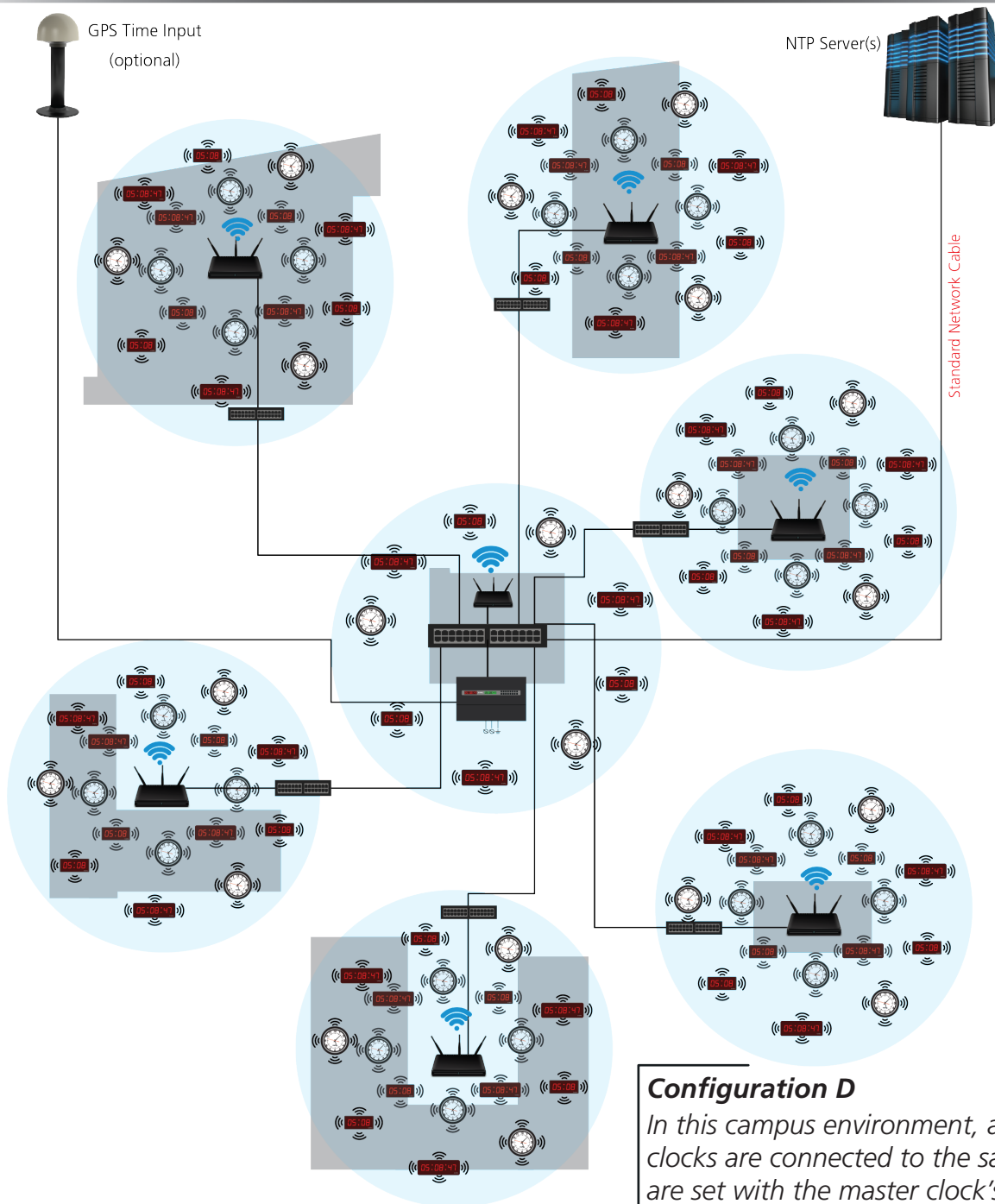

GPS Time Input
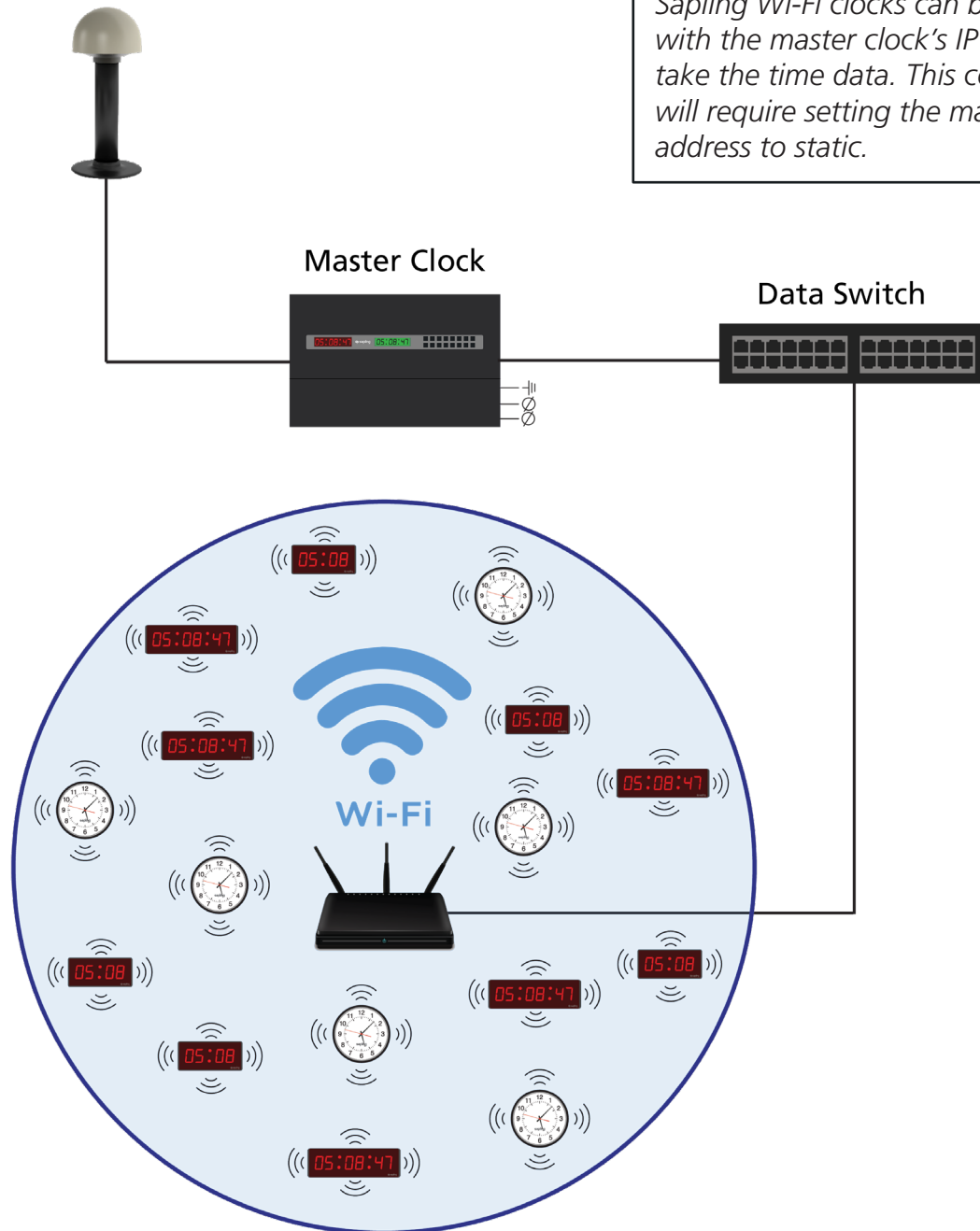
Configuration C

Sapling Wi-Fi clocks can be programmed with the master clock's IP address to take the time data. This configuration will require setting the master clock's IP address to static.

Master Clock

Data Switch

Wi-Fi

Sapling Wi-Fi Clock System - Campus Environment Line Drawing

GPS Time Input
(optional)

NTP Server(s)

Standard Network Cable

Configuration D
In this campus environment, all of the Wi-Fi clocks are connected to the same LAN and are set with the master clock's IP address as their time data source. This configuration will require setting the master clock's IP address to static.

Sapling Wi-Fi Clocks with a Master Clock and a GPS Receiver

Configuration E

This drawing is the same as configuration C but consisting of two master clocks for an additional layer of redundancy.

GPS Time Input (optional)

Master Clock #1

Master Clock #2

GPS Time Input (optional)

GPS Cable

GPS Cable

Local Power Ø

Network Cable

Network Cable

Ø Local Power

Data Switch

Wi-Fi